|  |  |  | INDIAN SCHOOL AL WADI AL KABIR <br> Class VIII, Mathematics Worksheet 2- Factorisation |  |  |  |  |  |
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| OBJECTIVE TYPE (1 Mark) |  |  |  |  |  |  |  |  |
| Q.1. | Which of the following is the common factor of $2 x^{2} y$ and $30 x y^{2}$ ? |  |  |  |  |  |  |  |
|  | A | 7 | B | xy | C | $2 x y$ | D | none of these. |
| Q.2. | Which of the following are the factors of $1-x^{2}$ ? |  |  |  |  |  |  |  |
|  | A | $(\mathrm{x}+\mathrm{I})(\mathrm{x}-\mathrm{I})$ | B | $(1-x)(1-x)$ | C | $(1+x)(1+x)$ | D | $(1-x)(1+x)$ |
| Q.3. | Which of the following is the common factor of $5 x y, 3 p q r$ and $4 x y z$ ? |  |  |  |  |  |  |  |
|  | A | 5 | B | 0 | C | xy | D | 1 |
| Q.4. | Which of the following is quotient obtained on dividing $-18 x y z^{2}$ by $-3 x z$ ? |  |  |  |  |  |  |  |
|  | A | $6 y z$ | B | -6yz | C | $6 x y^{2}$ | D | 6xy |
| Q.5. | Which of the following is quotient obtained on dividing $\left(x^{2}-b\right)(x-a)$ by $(x-a)$ ? |  |  |  |  |  |  |  |
|  | A | $\left(x^{2}-b\right)$ | B | ( $\mathrm{x}+\mathrm{a}$ ) | C | $\left(x^{2}+b\right)$ | D | $\frac{(x-b)}{(x+a)}$ |
| Q.6. | Which of the following are the factors of $-20 x^{2}+10 x^{4}$ |  |  |  |  |  |  |  |
|  | A | $10 x^{2}\left(x^{2}+2\right)$ | B | $20 x^{2}\left(x^{2}-1\right)$ | C | $40 x\left(x^{2}-1\right)$ | D | $10 x^{2}\left(x^{2}-2\right)$ |
| Q.7. | The value of$0.645 \times 0.645+2 \times 0.645 \times 0.355+0.355 \times 0.355 \text { is }$ |  |  |  |  |  |  |  |
|  | A | 0 | B | -1 | C | 2 | D | 1 |
| Q.8. | A rectangle has area $x^{2}+13 x+40$ square feet. The width is $(x+5)$. What is the length? |  |  |  |  |  |  |  |
|  | A | $(\mathrm{x}+3)$ feet | B | $(\mathrm{x}+13)$ feet | C | $(\mathrm{x}+8)$ feet | D | $(\mathrm{x}+5)$ feet |
| Q.9. | Factors of $8 x+8 y+x^{2}+x y$ |  |  |  |  |  |  |  |
|  | A | $(8-x)(x-y)$ | B | $(8+x)(x+y)$ | C | $(8+x)(x-y)$ | D | $(8-x)(x+Y)$ |
| Q. 10 | When we factorise an expression, we write it as a $\qquad$ of factors. |  |  |  |  |  |  |  |
|  | A | Product | B | Sum | C | Difference | D | Quotient |



| Q33. | $a^{3}-a^{2} b-a^{2} b^{2}$ by $a^{2}$ |
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| Q34. | $4 y{ }^{3}+6 y^{2}+6 y$ by $2 y$ |
| Q35. | Divide $24\left(x^{2} y z+x y^{2} z+x y z^{2}\right)$ by $8 x y z$ |
| Algebraic Expressions- (Polynomial $\div$ Polynomial $)$ |  |
| Q36. | $\left(7 x^{2}+14 x\right) \div(x+2)$ |
| Q37. | $44\left(x^{4}-5 x^{3}-24 x^{2}\right)$ by $11 x^{2}(x-8)$ |
| Q38. | $z\left(5 z^{2}-80\right)$ by $5 z(z+4)$ |
| Q39. | $x^{2}+3 x+2$ by $(x+1)$. |
| Q40. | $9 p^{2} q^{2}(3 z-12) \div 27 p q(z-4)$ |

